



ANTI MICROBIAL

METALWORKS BIOGUARD CLIP-IN



BENEFITS

- Special anti-microbial colour coat to inhibit the growth of MRSA & E.coli
- Washable & soil resistant surface
- Durability- scratch, mar & abrasive resistance properties
- Monolithic appearance with no gaps
- 100% downward accessibility with panel removal too

APPLICATION AREAS

- Healthcare (Severe & High Risk zones)
 - Emergency Rooms
 - ICU & ICCU
 - Pathological Laboratories
- Research & Testing Facilities
- Transport Terminals
 - Airport Terminals
 - Metro Stations
 - Bus Terminal
- Offices
- Gymnasiums & Sports Complexes
- High circulation areas like corridors, lobbies, atriums, waiting rooms, reception areas, conference rooms etc.



COLOR SELECTION



Global White



White
9010



White
Aluminium
9006



Grey
Aluminium
9007



Black
9005

OPTIONAL COLOR*



RAL
Co-ordinated

*Available upon request

#Due to printing limitations, shades colors may vary from actual product.

For more color & perforation options or suspension information, please contact Armstrong sales representative.

* Warranty offered only when ceiling tiles installed with Armstrong suspension system and installation is carried out as per Armstrong Ceilings' recommendations. For more details please refer the Armstrong Ceilings India website.

PRODUCT SELECTION



Noise Reduction Coefficient (NRC)



Light Reflectance (LR)



Humidity Resistance (RH)



Demountability



Resistance to Disinfectants



Air Quality



Washable



Anti-Microbial



Anti-Fungal

Clip-In	Plain	Standard Perforated	Micro Perforated	Micro Perforated
<p>DP12 Suspension</p>	<p>No perforation</p>	<p>2.5 mm dia. holes 16% Open area Square pitch</p>	<p>1.5 mm dia. holes 18% Open area Diagonal pitch</p>	<p>1.8 mm dia. holes 20% Open area Diagonal pitch</p>
GALVANISED STEEL				
600 x 600 x 0.5mm	✓	✓	✓	✓
600 x 1200 x 0.5mm	✓	✓	✓	✓
300 x 1200 x 0.5mm	✓	✓	✓	✓

*Also available in aluminium

*Above dimensions are nominal. For actual dimensions, please request for product drawings. Dimensional tolerance to be considered as ± 2mm

PERFORMANCE



NRC: up to 0.70



Fire Classification

Metal Clip-In Bioguard GI metal ceilings Class 0 / Class 1, BS 476, Part 6 & 7

Metal Clip-In Bioguard AL metal ceilings Class 0 / Class 1, BS 476, Part 6 & 7



Anti-Microbial Performance

Up to 99.9% reduction in bacterial activity from the surface tested for a range of bacteria mentioned as per MOD ISO22196:2011

Test Bacterium	% Reduction in 24 Hrs
E.coli	>=99.99%
Bacillus Subtilis	>=99.99%
Pseudomonas Aeruginosa	>=99.99%
Clostridium perfringens	>=99.99%
Enterococcus faecalis	>=99.99%
Staphylococcus aureus	>=99.99%
Salmonella enterica	>=99.99%
Streptococcus faecalis	>=99.99%
MRSA	>=99.87%

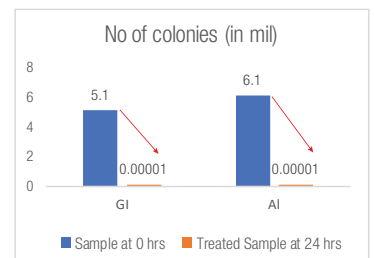
*Bacteria such as MRSA & E. Coli can survive on unprotected surfaces for many weeks
#Tested on powdercoated surface



Without Anti-microbial coating



With Anti-microbial coating



Note: Data representation of anti-bacterial activity against E.coli



Anti-Fungal Performance

No fungal growth observed on the surface of metal tile plain and perforated tested as per ASTM G-21-15

Test Fungi	Observed growth on specimen	Rating
Aspergillus brasiliensis	None	0
Penicillium pinophilum	None	0
Candida albicans	None	0

PHYSICAL DATA

MATERIAL

Hot dip Galvanised Steel/Aluminium

SURFACE FINISH

Post coating

THICKNESS

Galvanised Steel - 0.5mm

Aluminium - 0.7mm

RECOMMENDED SUSPENSION SYSTEM

Double frame - DP12 carrier with C channel or U-profile

WEIGHT

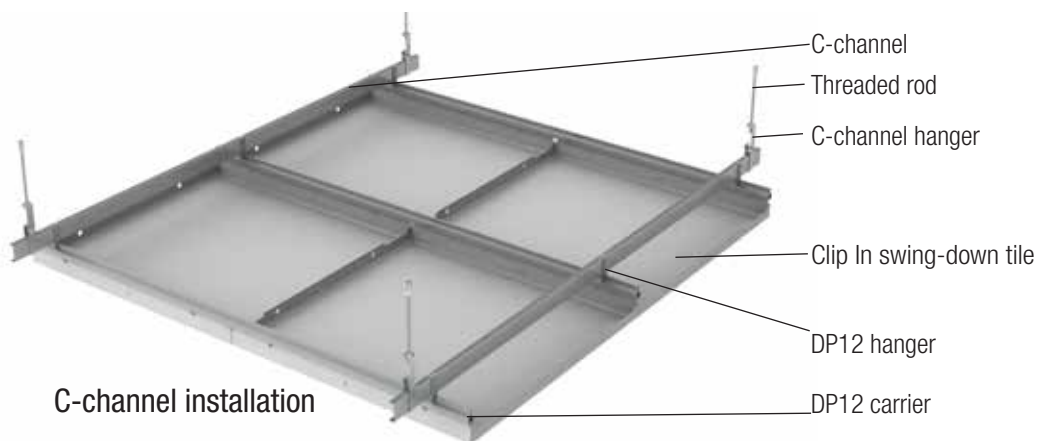
Galvanised Steel \cong 4.44 Kg/M²

Aluminium \cong 2.28 Kg/M²

WARRANTY

Ten (10) years limited warranty

INSTALLATION AND ASSEMBLY DETAIL



CONTACT US

Knauf Ceiling Solutions (India) Private Limited

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